INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/003428

CLASSIFICATION OF SUBJECT MATTER

Int.Cl.7 H01L33/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl. H01L33/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Published examined utility model applications of Japan 1922-1996
Published unexamined utility model applications of Japan 1971-2005
Registered utility model specifications of Japan 1996-2005
Published registered utility model applications of Japan 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.
х	JP 2003-101160 A (N: 2003.04.04, [0057], 001/0004223 A1 & A1 & AU 5342098 335 A	[0077] & US 2 EP 1017113	1,2,5,17,22, 24,25
х	JP 2003-179260 A (N: 2003.06.27, [0016] None		1,2,5,17,22, 24,25
x	JP 2004-6991 A (NICHI 04.01.08, [0030] & 5579 A1		1,2,5,17,22, 24,25
F Furthe	r documents are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international filing date adocument which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date caimed invention and combined with one or more other such document or means document of particular relevance; the claimed invention be considered novel or cannot be considered to inventive step when the document of particular relevance; the claimed invention document of particular relevance in the priority date and not in conflict with the application		derlying the invention the claimed invention cannot e considered to involve an staken alone the claimed invention cannot ve step when the document is ther such documents, such son skilled in the art at family	
Date of the	actual completion of the international search	Date of mailing of the international se	2005
Nama and a	nailing address of the ISA/JP	Authorized officer	
	Japan Patent Office	Tsuchiya Tomohisa	2K 8826
	umigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Telephone No. +81-3-3581-1101	Cut 3255

INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/003428

Category*	Citation of document, with indication where conserved a 5th advantages	Relevant to claim No.
-arcgory*	Citation of document, with indication, where appropriate, of the relevant passages Relevant	
	JP 2003-78169 A (NICHIA Corporation) 2 003.03.14, [0053], [0058], [0075], fig1&6 & US 2003/0151044 A1 & US 2003/0209704 A1	1,2,5,17,22
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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:			
1			
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows: The subject matter of claim 1 does not appear to be novel with respect to JP 2003-101160 A ([0057], [0077]), JP 2003-179260 A ([0024]), JP 2004-6991 A ([0030]), JP 2003-78169 A (fig1&6). The subject matter of claim 24 does not appear to be novel with respect to JP 2003-101160 A ([0057], [0077]), JP 2003-179260 A ([0024]), JP 2004-6991 A ([0030]). So the subject matter of claim 1&24 does not have any new special technical features.			
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.			
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.			
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
 4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1, 2, 5, 17, 22, 24, 25 Remark on Protest The additional search fees were accompanied by the applicant's protest. 			
No protest accompanied the payment of additional search fees.			